

2030 TRANSPORTATION PLAN DEMOGRAPHIC SUMMARY

Lafayette Consolidated Government

Traffic & Transportation Department



Metropolitan Planning Organization

Comprehensive Planning Division

The goal:

Maximize roadway dollars

The question:

Which roadways have the most trips at the least cost per trip?

Traffic patterns can be predicted by the

1... Roadways

A - Capacity

B - Inter Connectivity

2 ... Neighborhood characteristics

A - Households

B - Workplaces

C - Schools

Statistical Testing

Developed statistical formulas to predict the amount of trips on major roadways.

0.0 no relationship (predicted & observed)
+1.0 positive relationship (1 to 1 match)

$$R^2 = .91$$

Plan Implementation Cost

We will bet \$460,000,000 in next 25 years.

That's about half a billion dollars!

Plan Revisions

Minor Revisions every 5 years

Major Revision every 10 years

Focus on Neighborhood Characteristics

A - Where do people live? - Households

B - Where do people work? - Workplaces

C - Where do people learn? - Schools

Which Neighborhoods?

All of Lafayette Parish and Municipalities

Broussard, Carencro, Duson

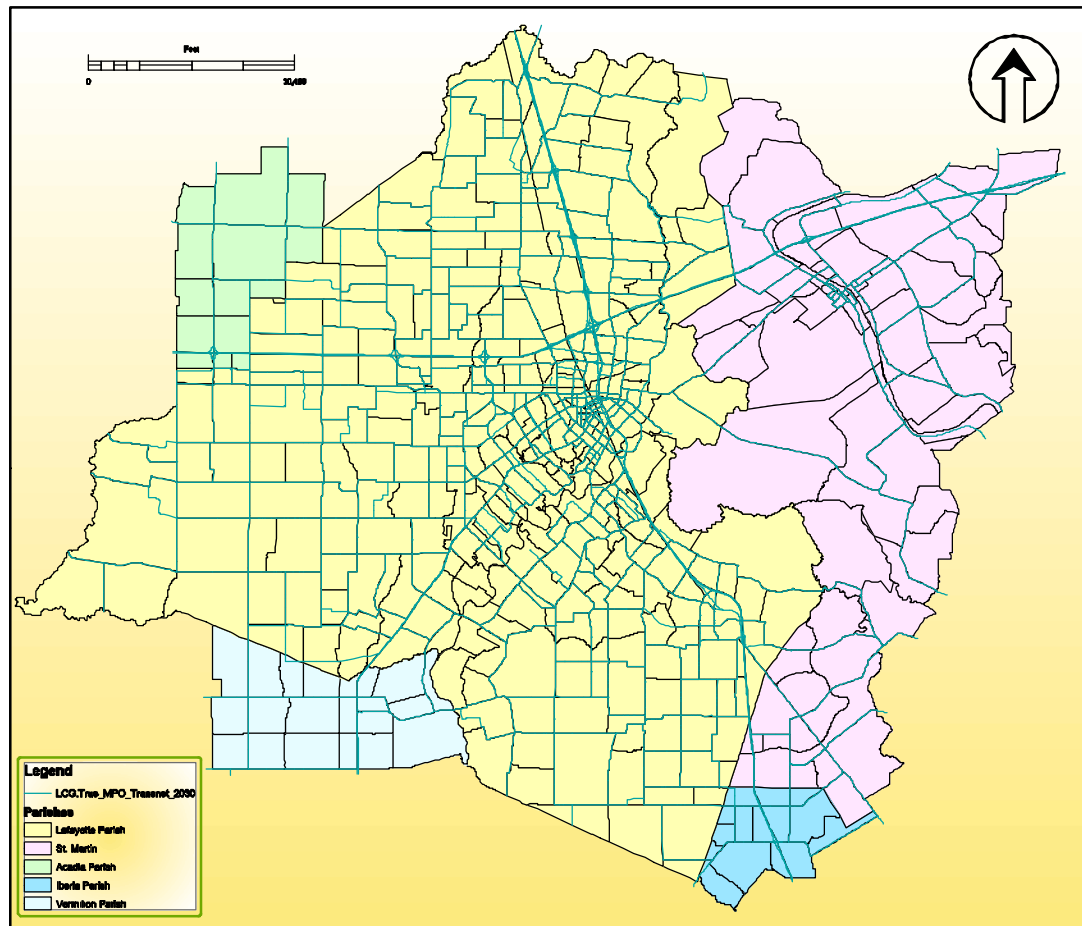
Lafayette, Scott, Youngsville

Parts of Adjoining Parishes & Towns

Acadia, Vermilion, Iberia, St. Martin

Maurice, Breaux Bridge

Multi-Parish Project Planning Area based on 2000 Census



What is a neighborhood?

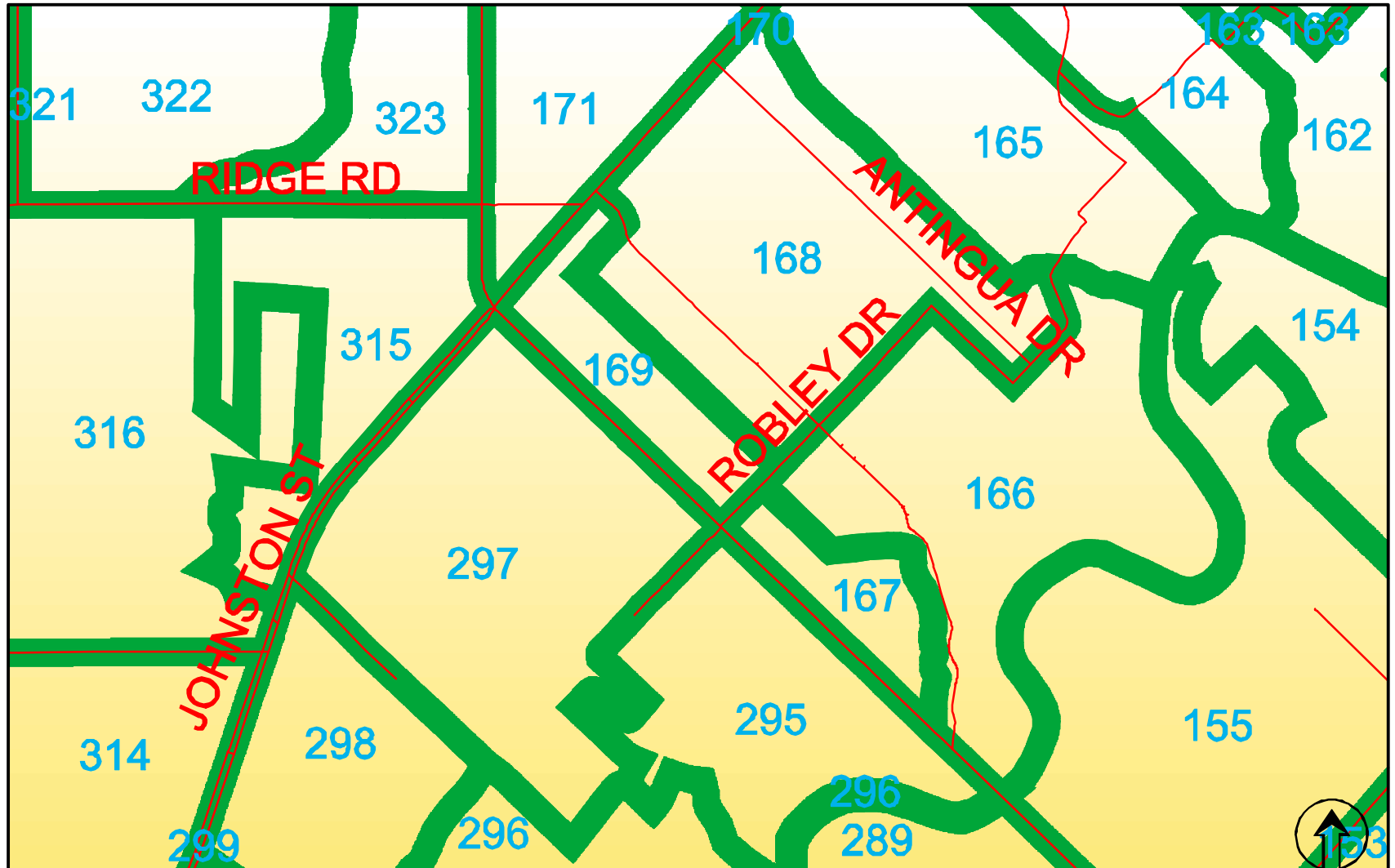
Neighborhoods

are bounded by Roads & Streams

Each neighborhood has a similar land use
Residential, Commercial, Agricultural, etc.

599 Traffic Analysis Zones (TAZ's)

Mall of Acadiana Vicinity



Where do people live?

Each TAZ analyzed with 2000 Census Data

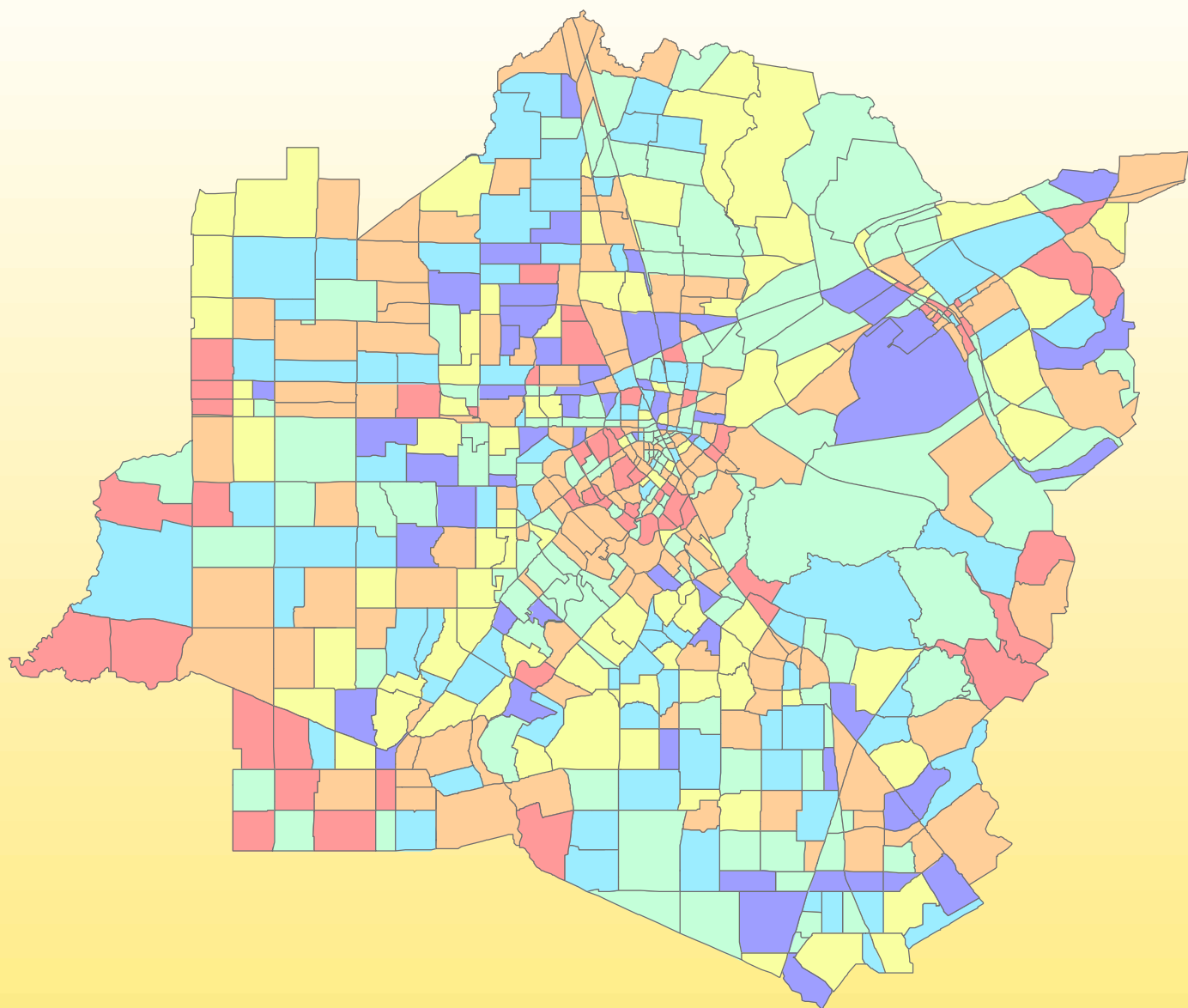
- 1- Current age and gender distribution
- 2- Current number of Households

Population growth estimate for each TAZ

Assume US rates of births/deaths

Assume Louisiana in/out migration

POPULATION

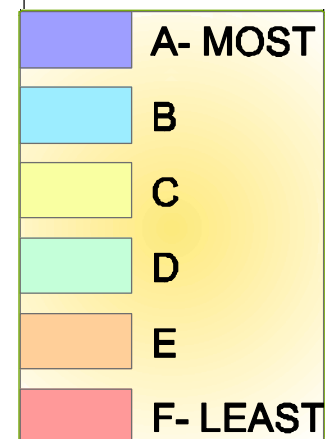


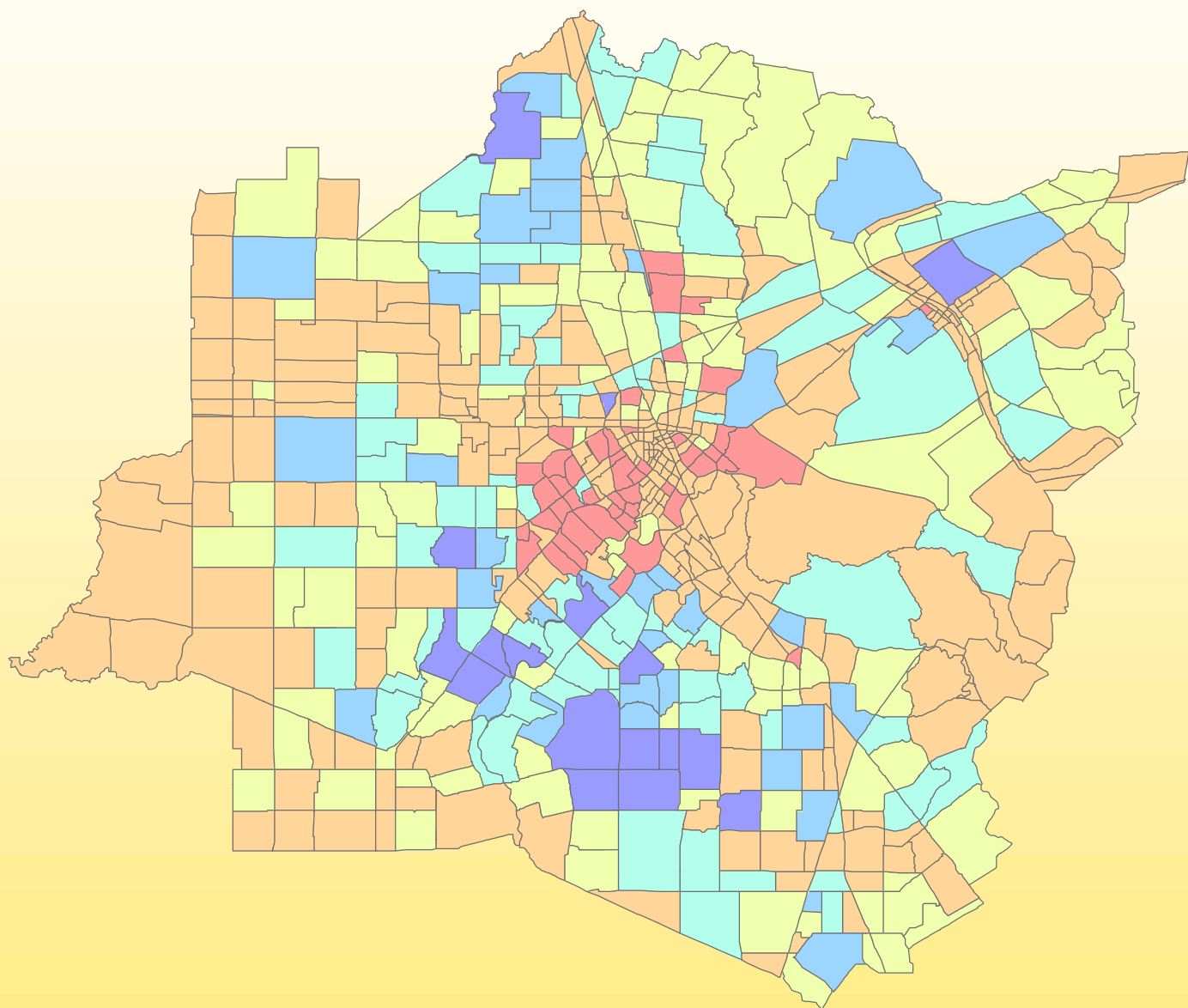
**Cumulative
2000 - 2030**

Births

Deaths

**relative
ranking
system**





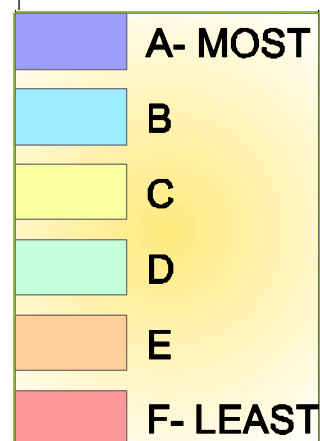
**Cumulative
2000 - 2030**

Births

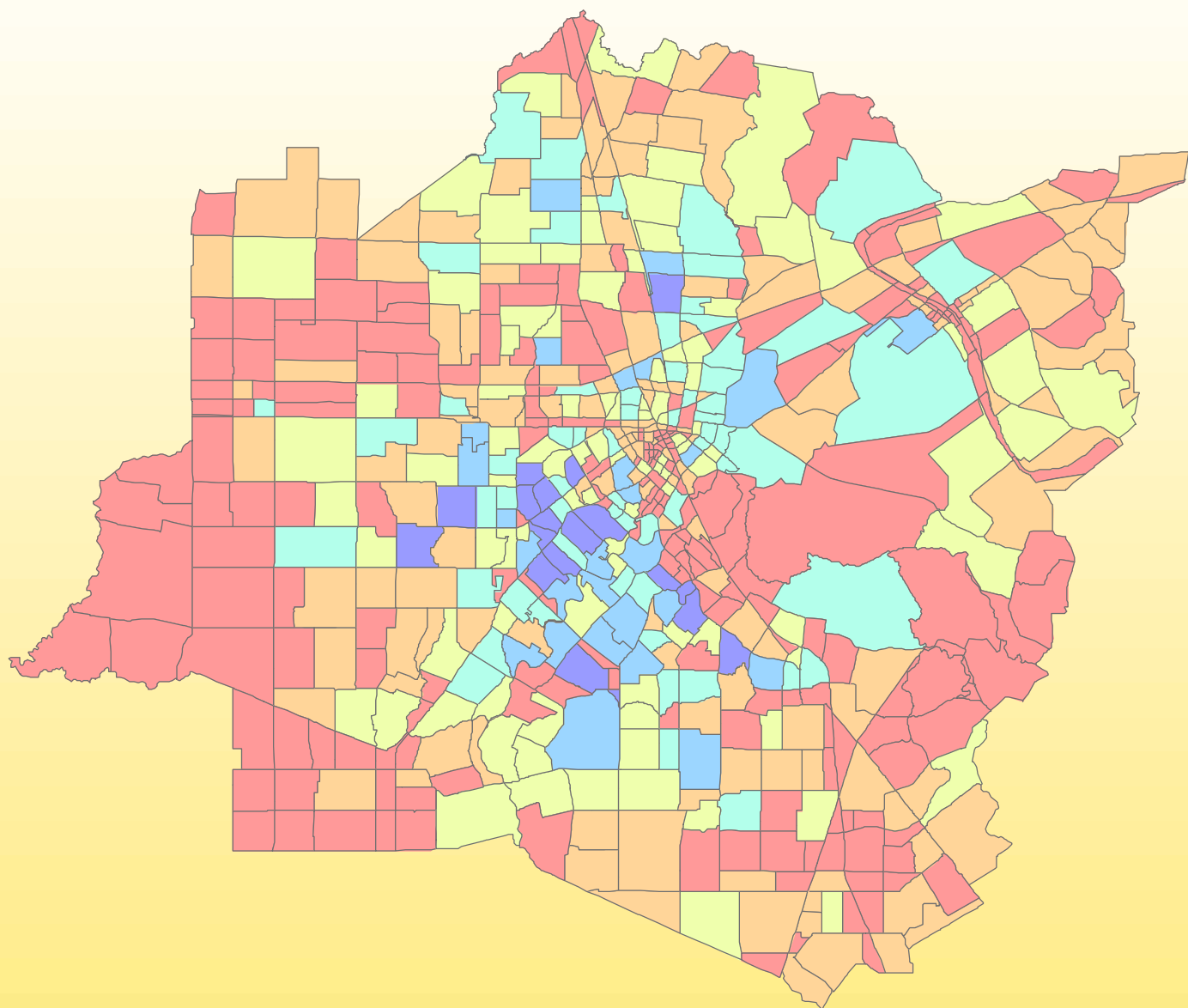
Deaths

Migration

**relative
ranking
system**

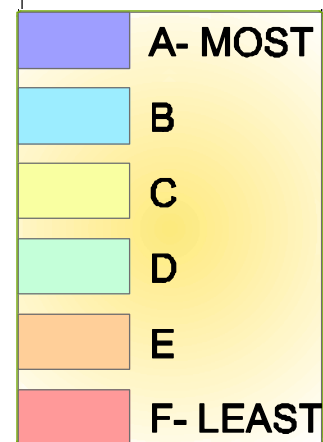


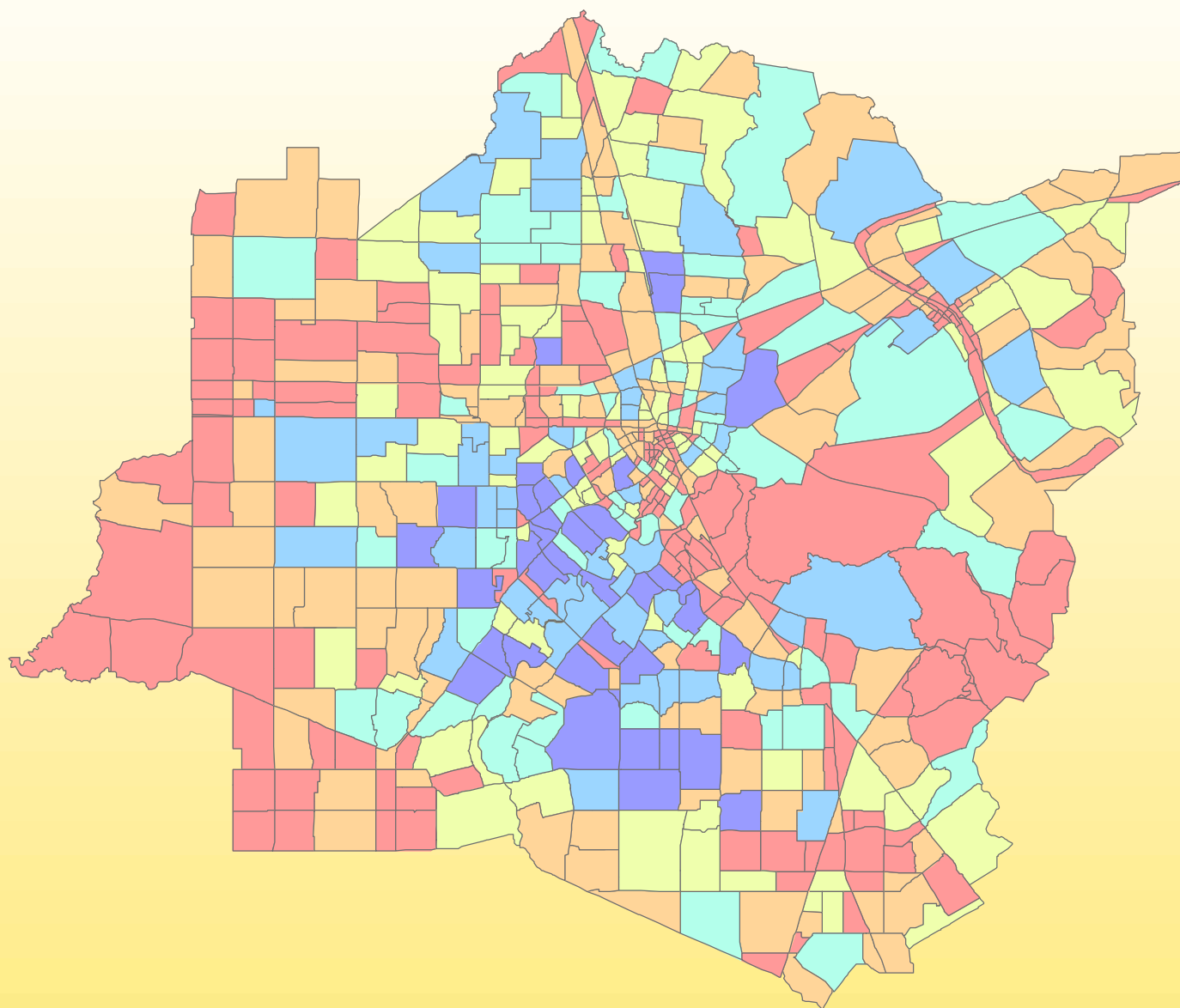
DWELLING UNITS



**Total
2000
Dwelling
Units**

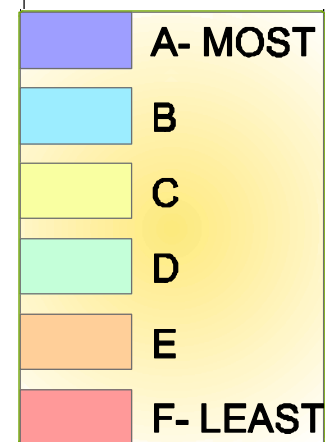
**relative
ranking
system**





**Total
2030
Dwelling
Units**

**relative
ranking
system**



Where do people work?

Each TAZ Louisiana Dept of Labor
2000 and 2002 Data

Plotted the location of 75% of workers
Adjusted estimate remaining 25% of worker

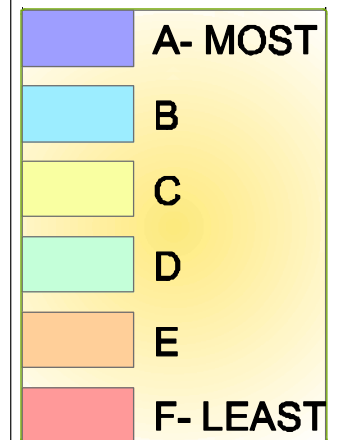
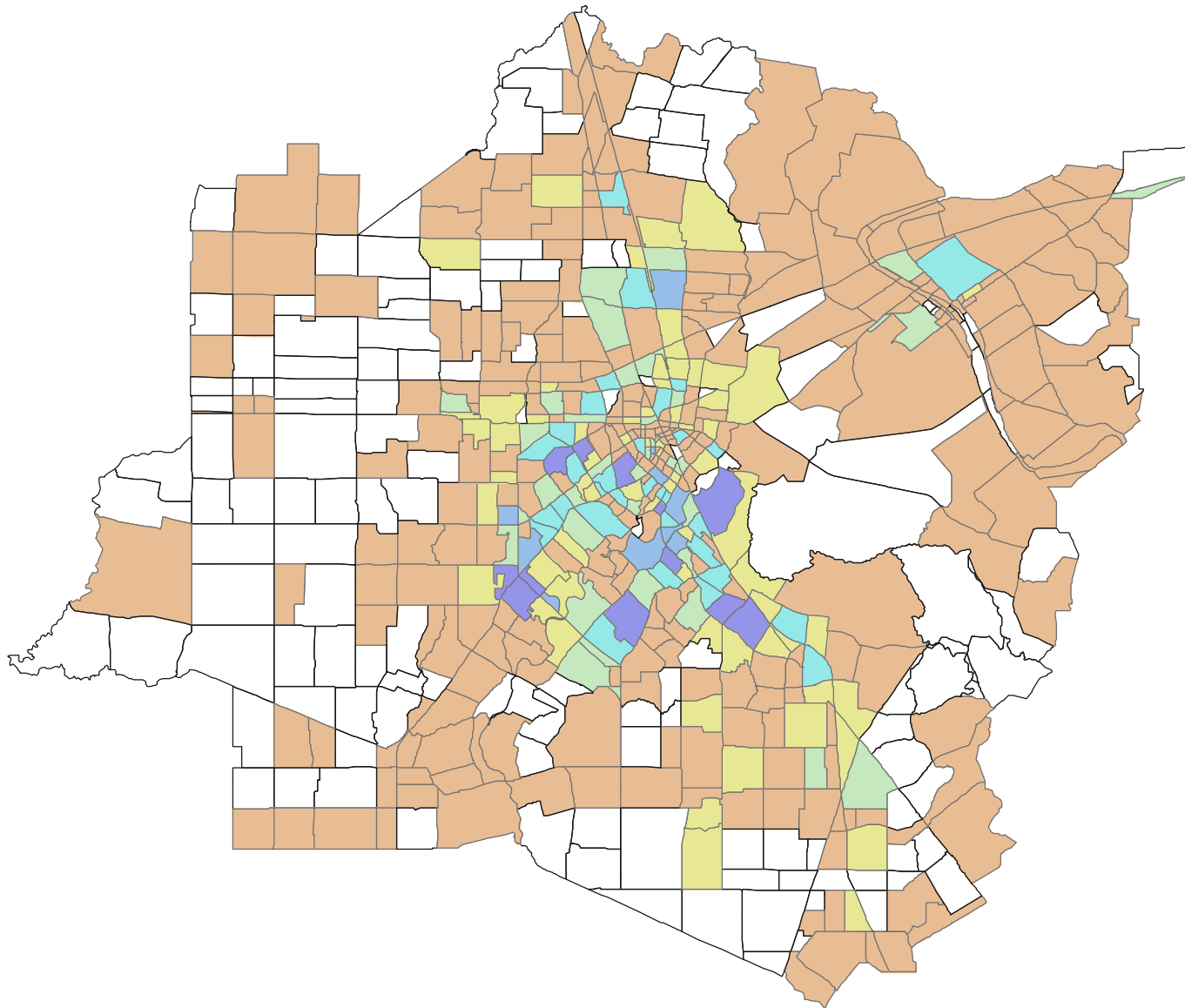
Analysis of 100,000 workers

Total workers by retail and non-retail by TAZ

ALL
WORKERS

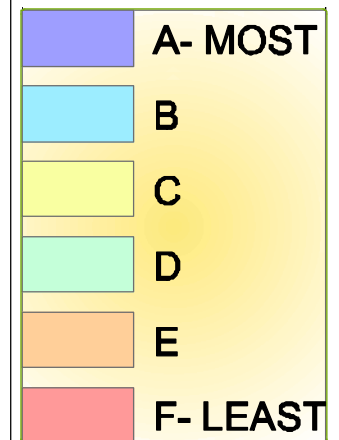
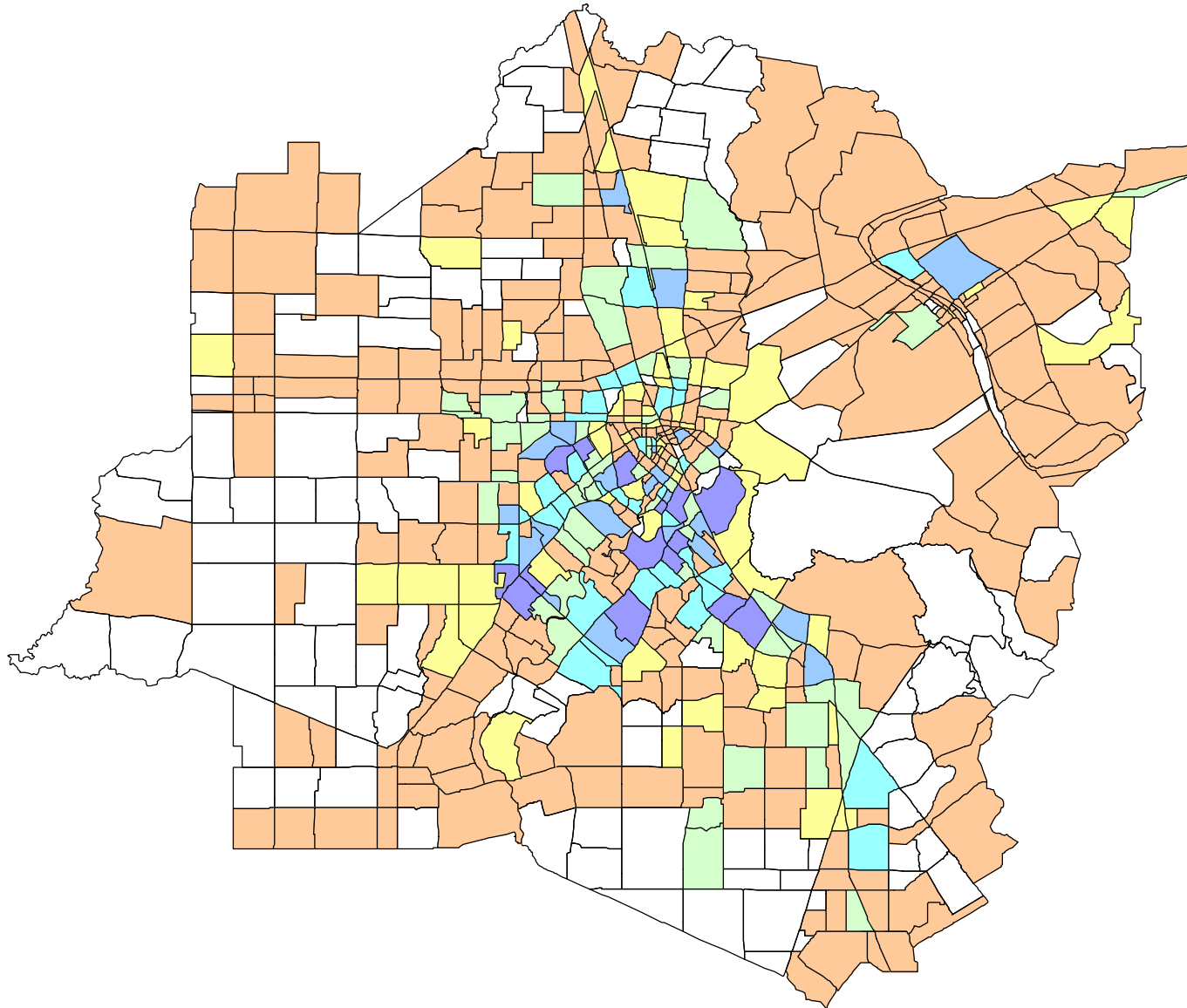
**Total
2000
Total
Workers**

**absolute
ranking
system**

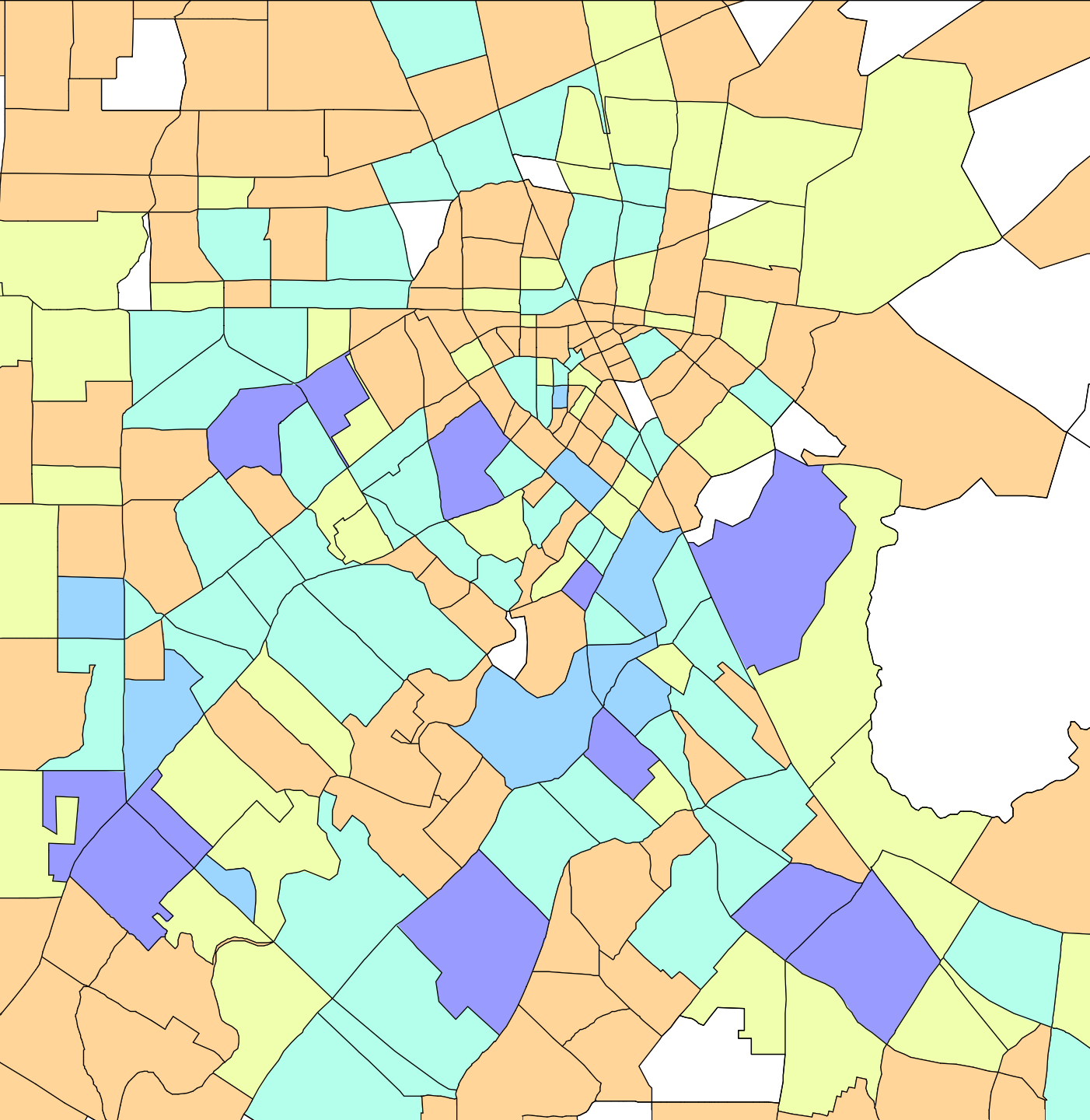


2030 Total Workers

absolute
ranking
system

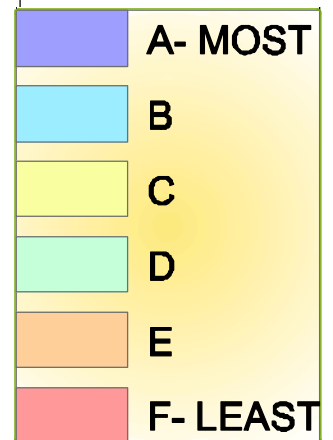


CENTRAL WORKERS



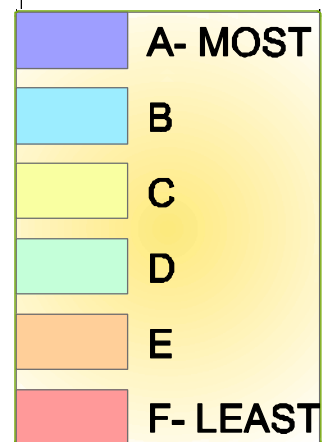
**2000
Total
Workers**

**absolute
ranking
system**



2030 Total Workers

absolute
ranking
system



Where do people learn?

Located all Public and Private Schools

Kindergarten to 12th grade

Located All Post Secondary Schools

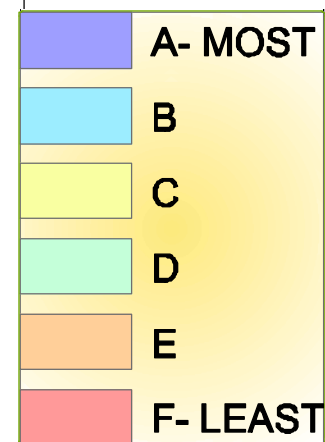
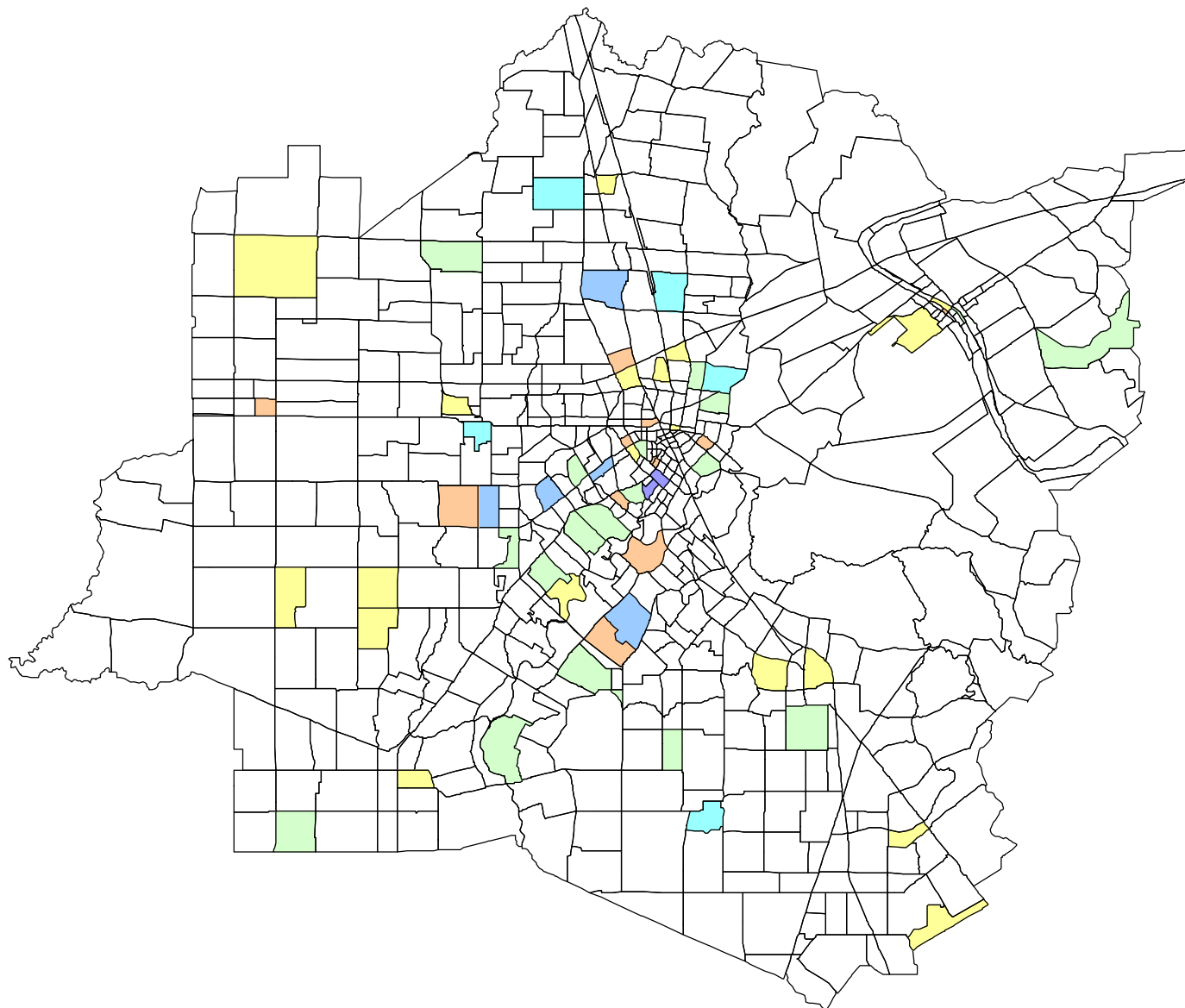
ULL, Community, Trade, Business

Counted students attending in each TAZ

ALL
STUDENTS

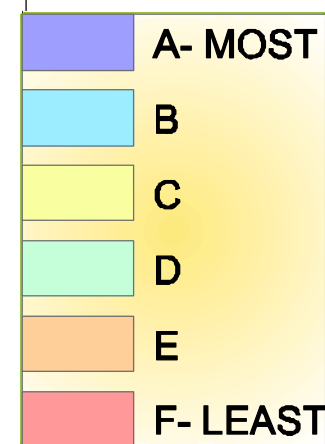
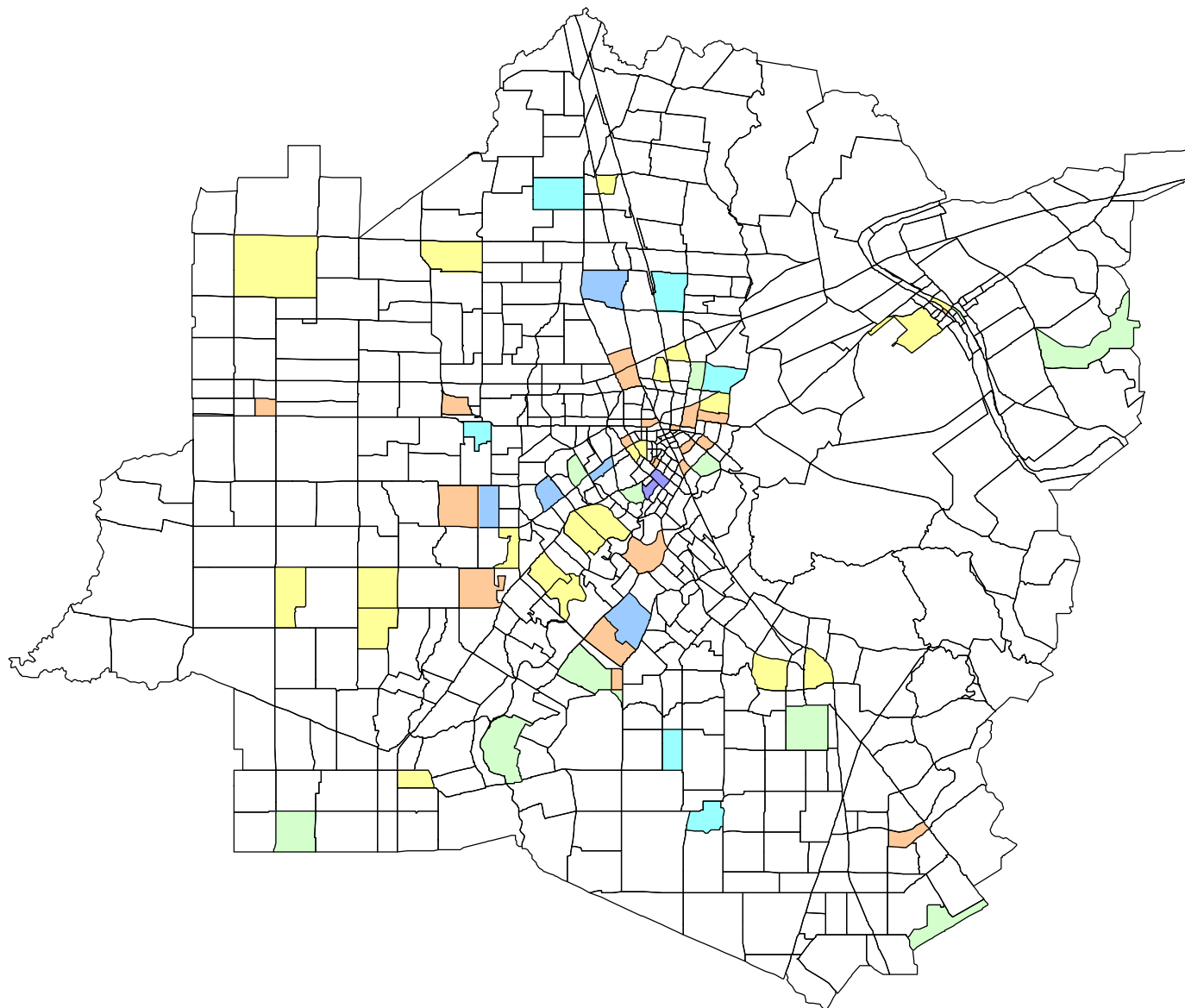
2000 Total Students

absolute
ranking
system

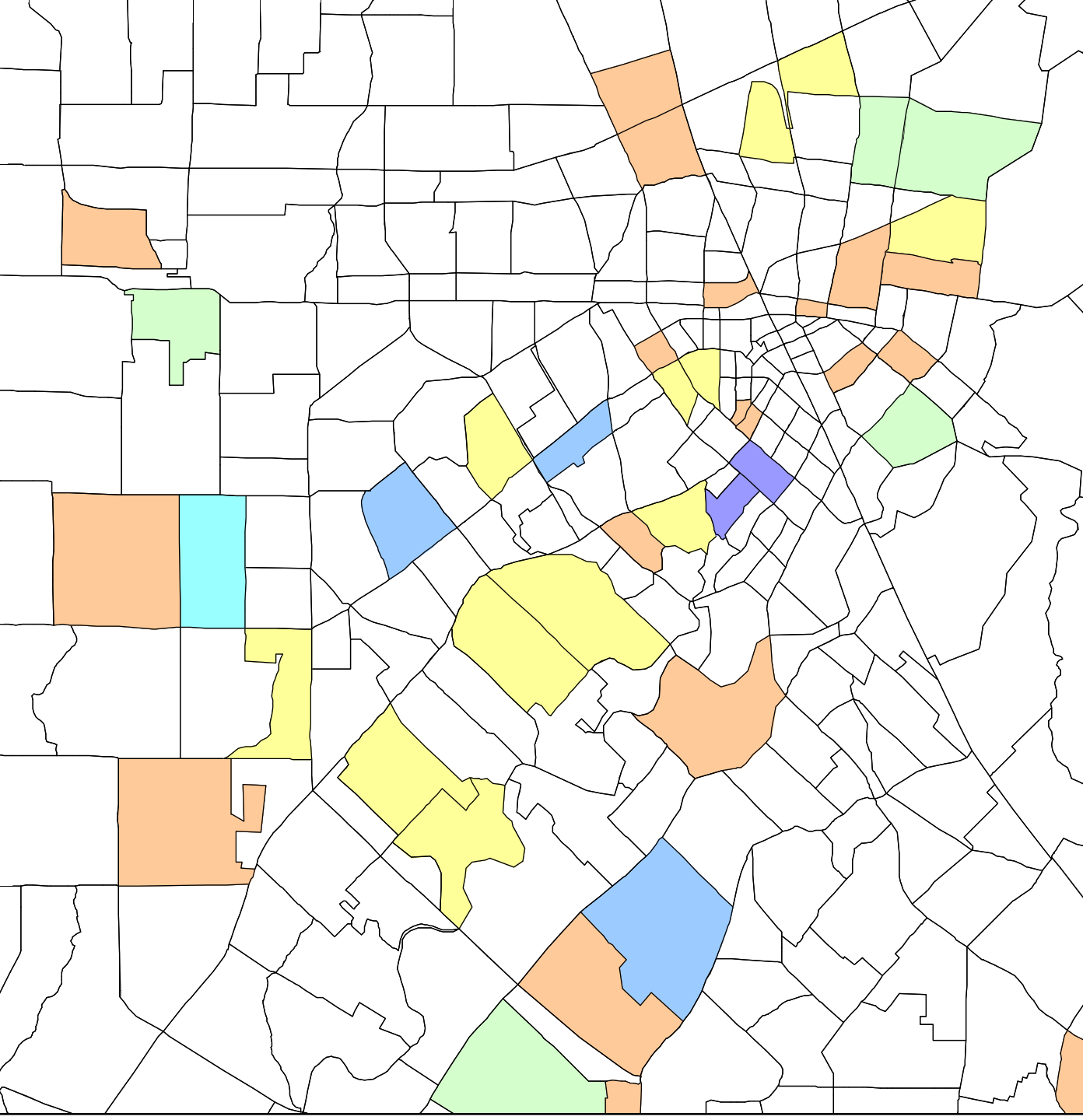


2030 Total Students

absolute
ranking
system

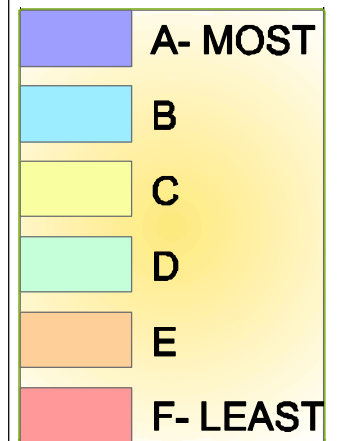


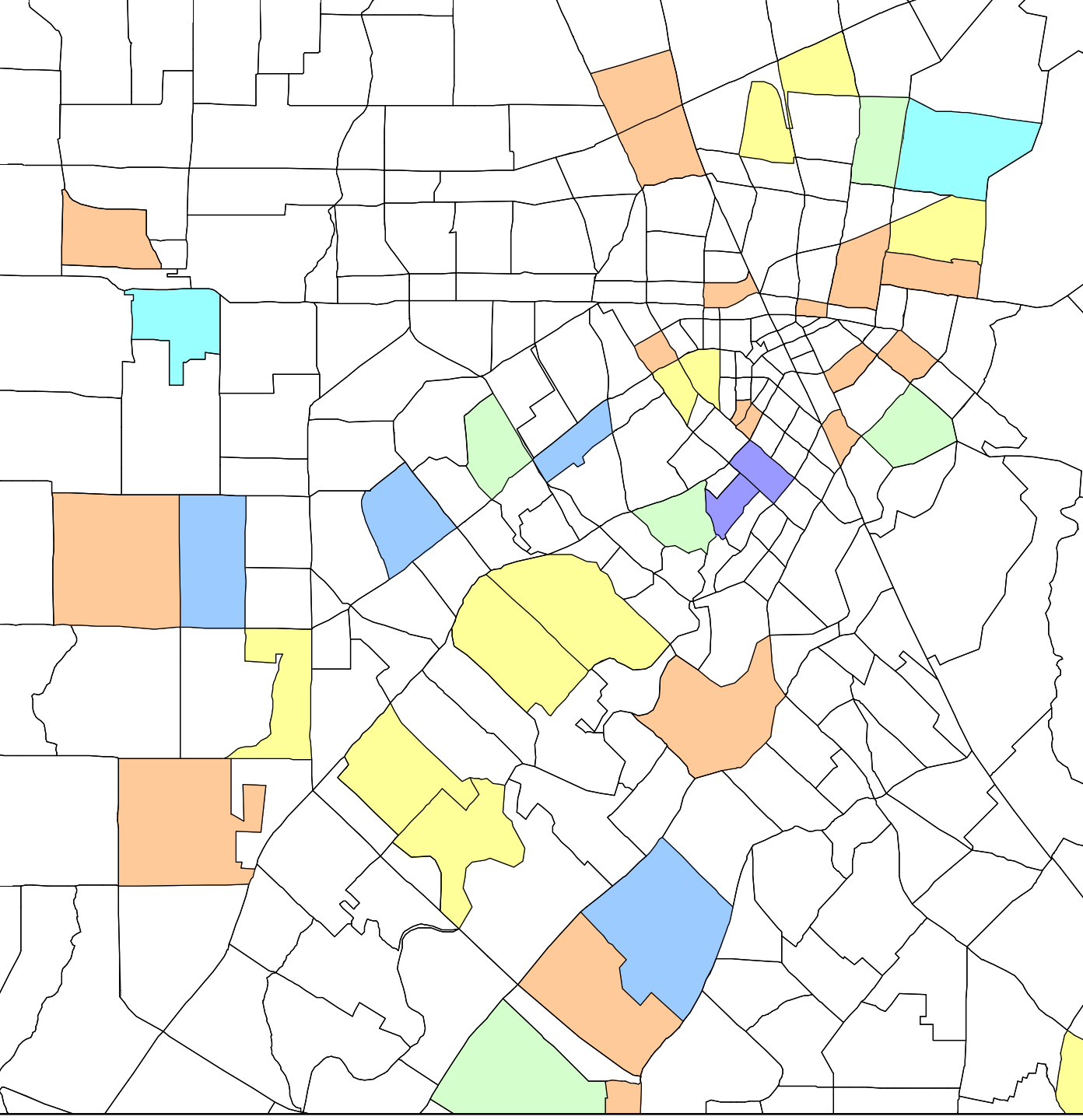
CENTRAL STUDENTS



**2000
Total
Students**

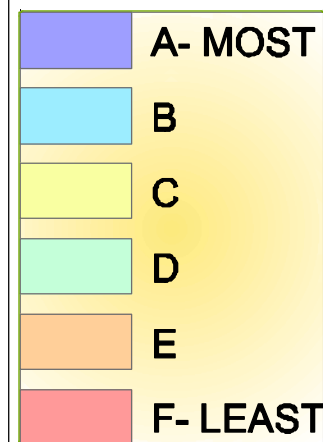
**absolute
ranking
system**





**2030
Total
Students**

**absolute
ranking
system**



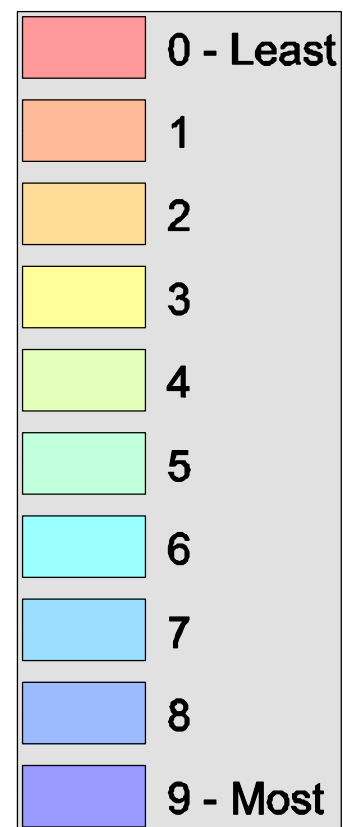
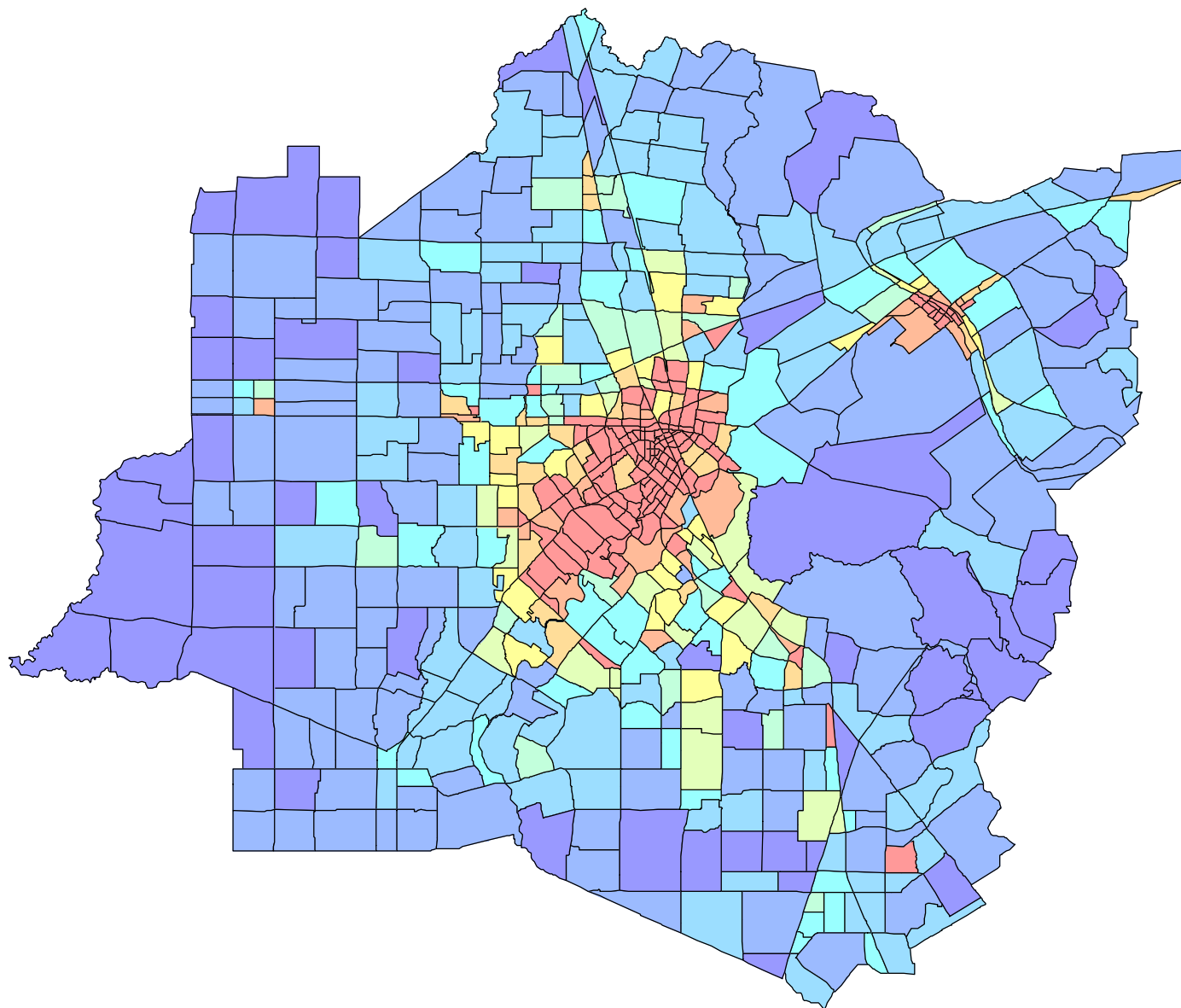
OTHER MAJOR FINDINGS

30% Maxim

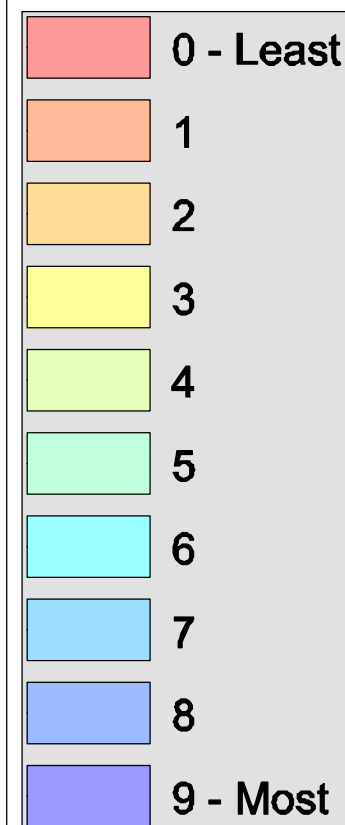
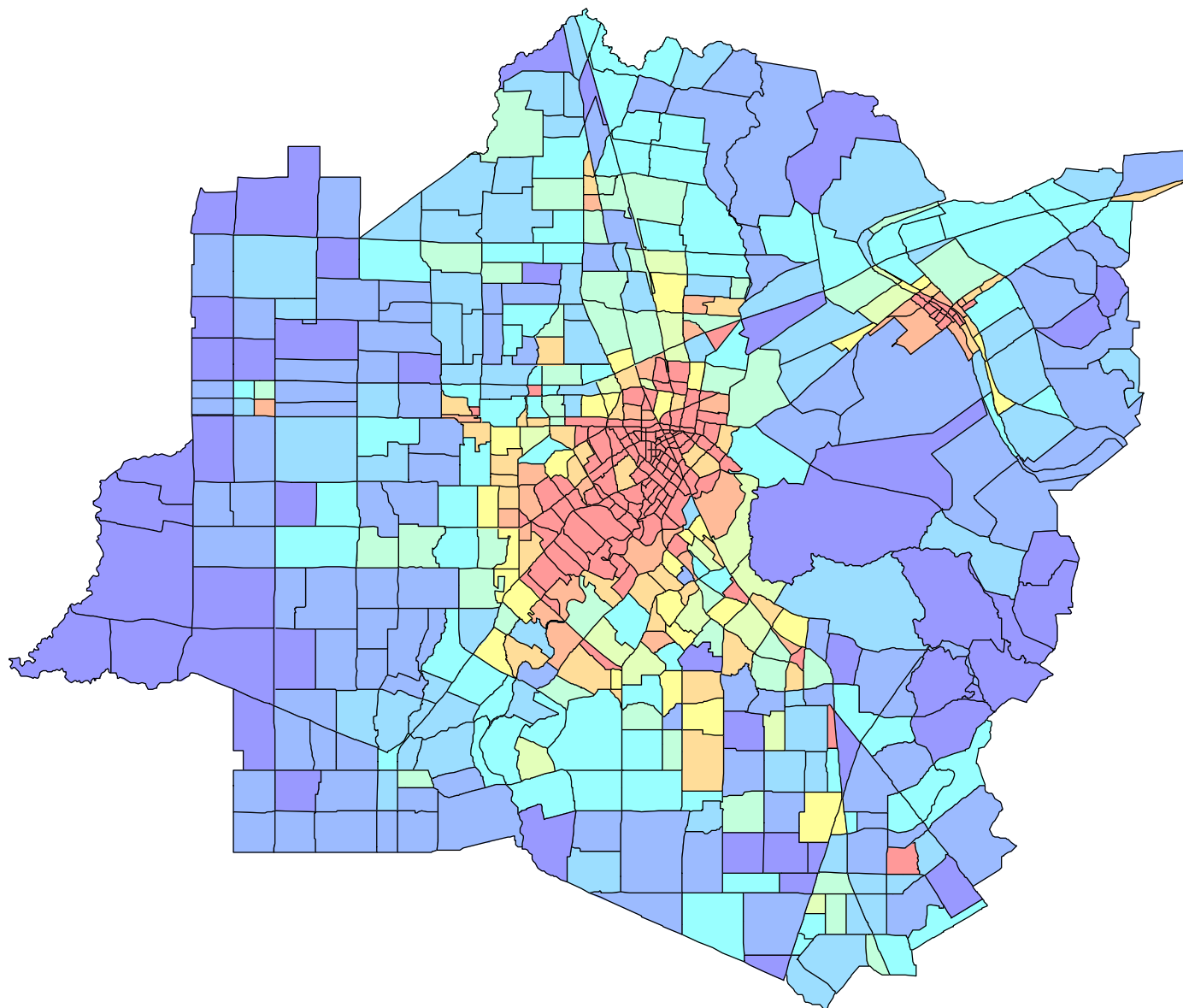
Community Names

DEVELOPABLE LAND

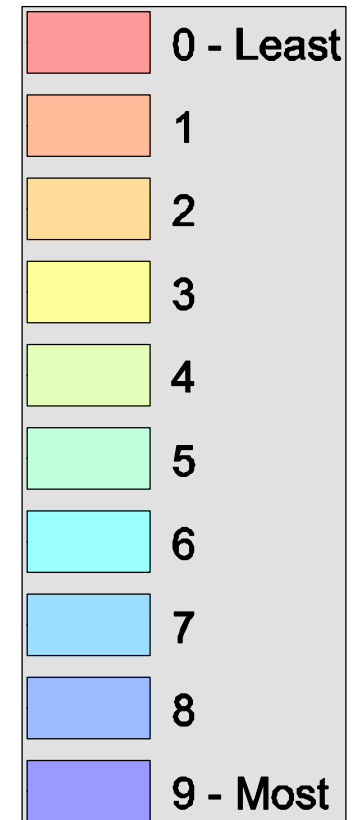
2000 Developable Land



2010 Developable Land

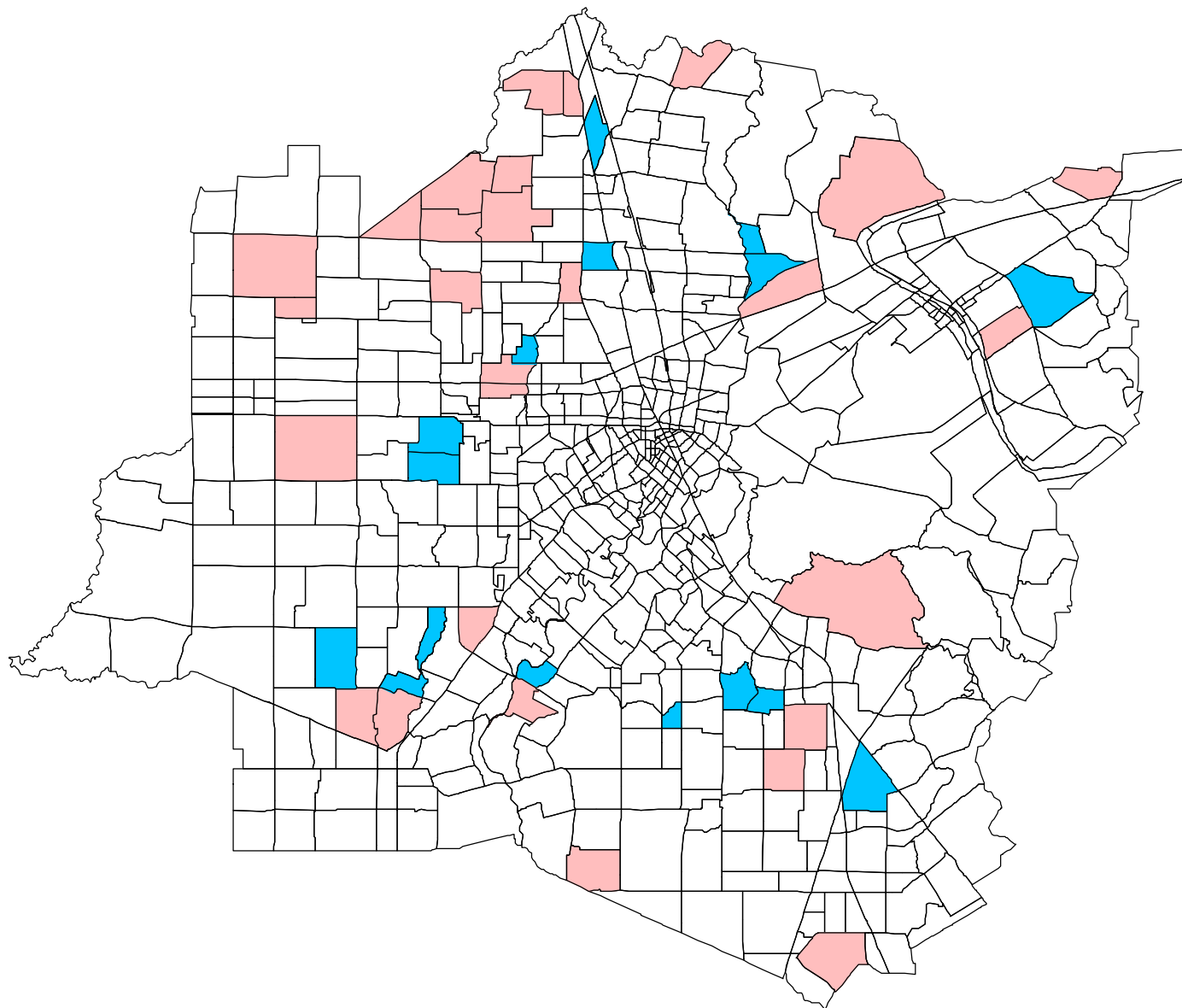


2020 Developable Land



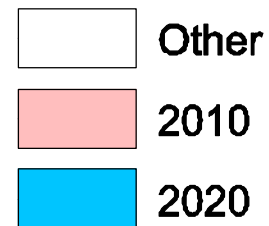
THE 30% MAXIM

Rapid development occurs
when 30% of the Real Estate is
developed.

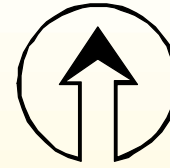


**80% to 70%
Available
Land
Changes**

**80% TO 70%
LAND USE**

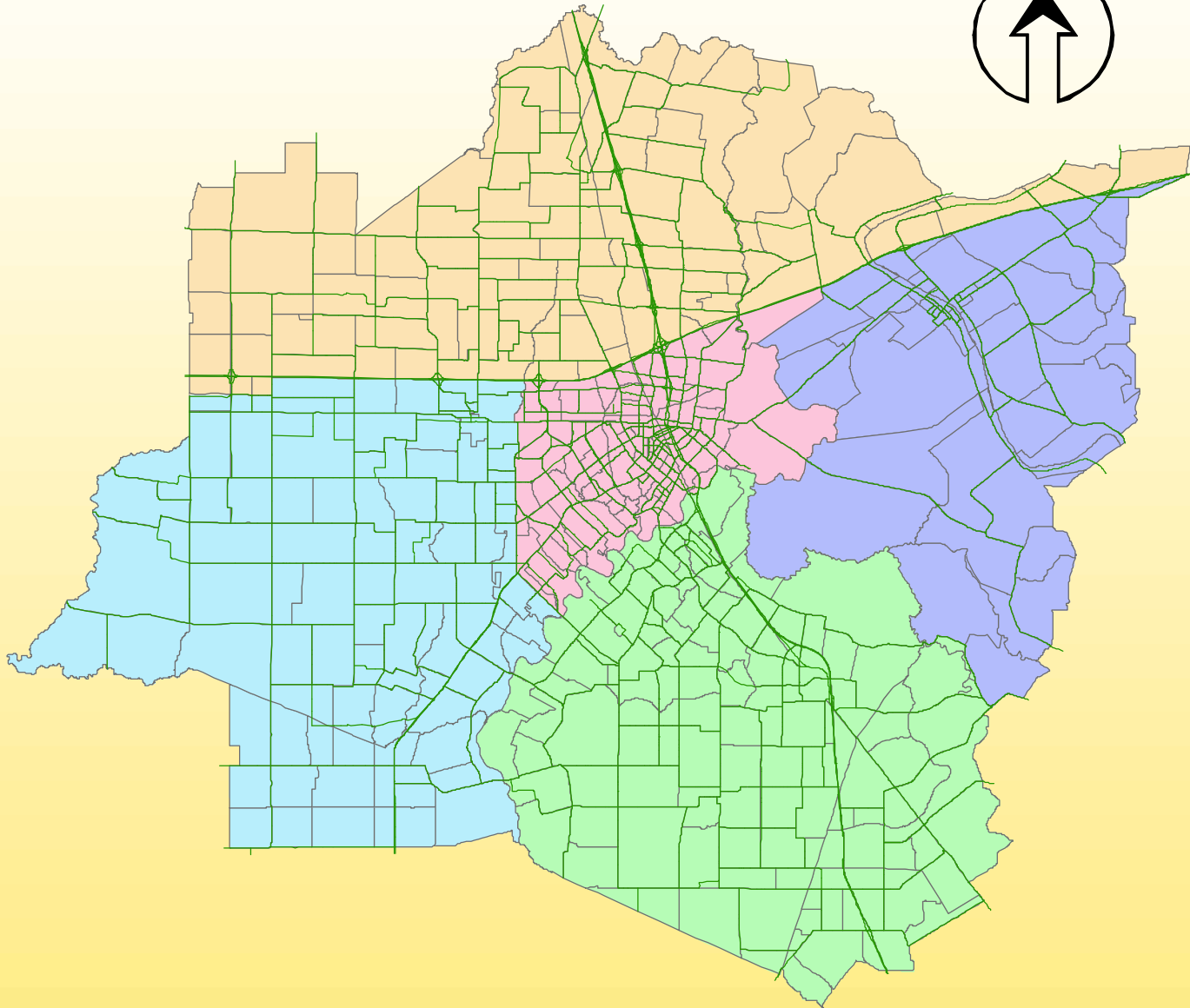


COMMUNITY NAMES

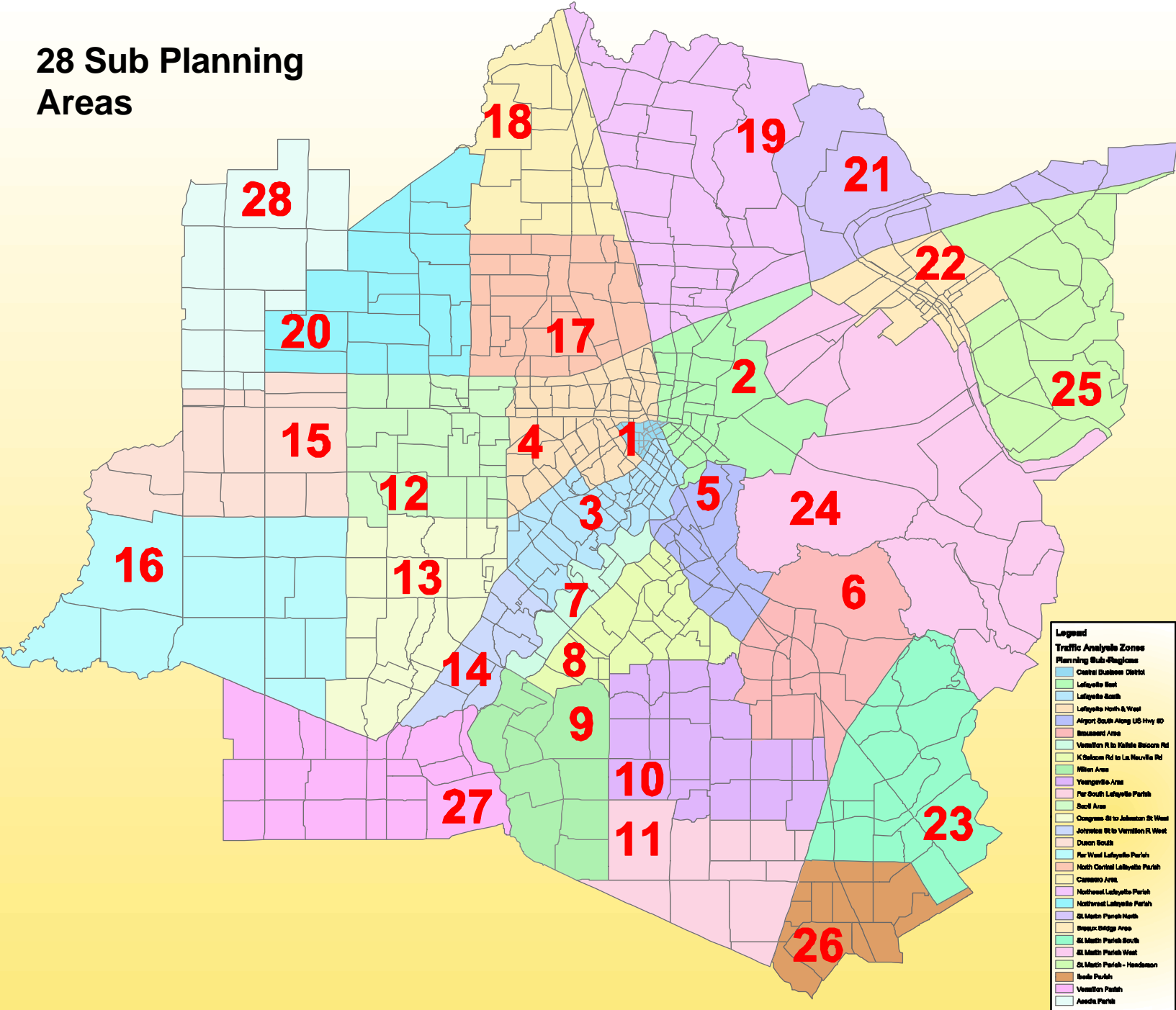


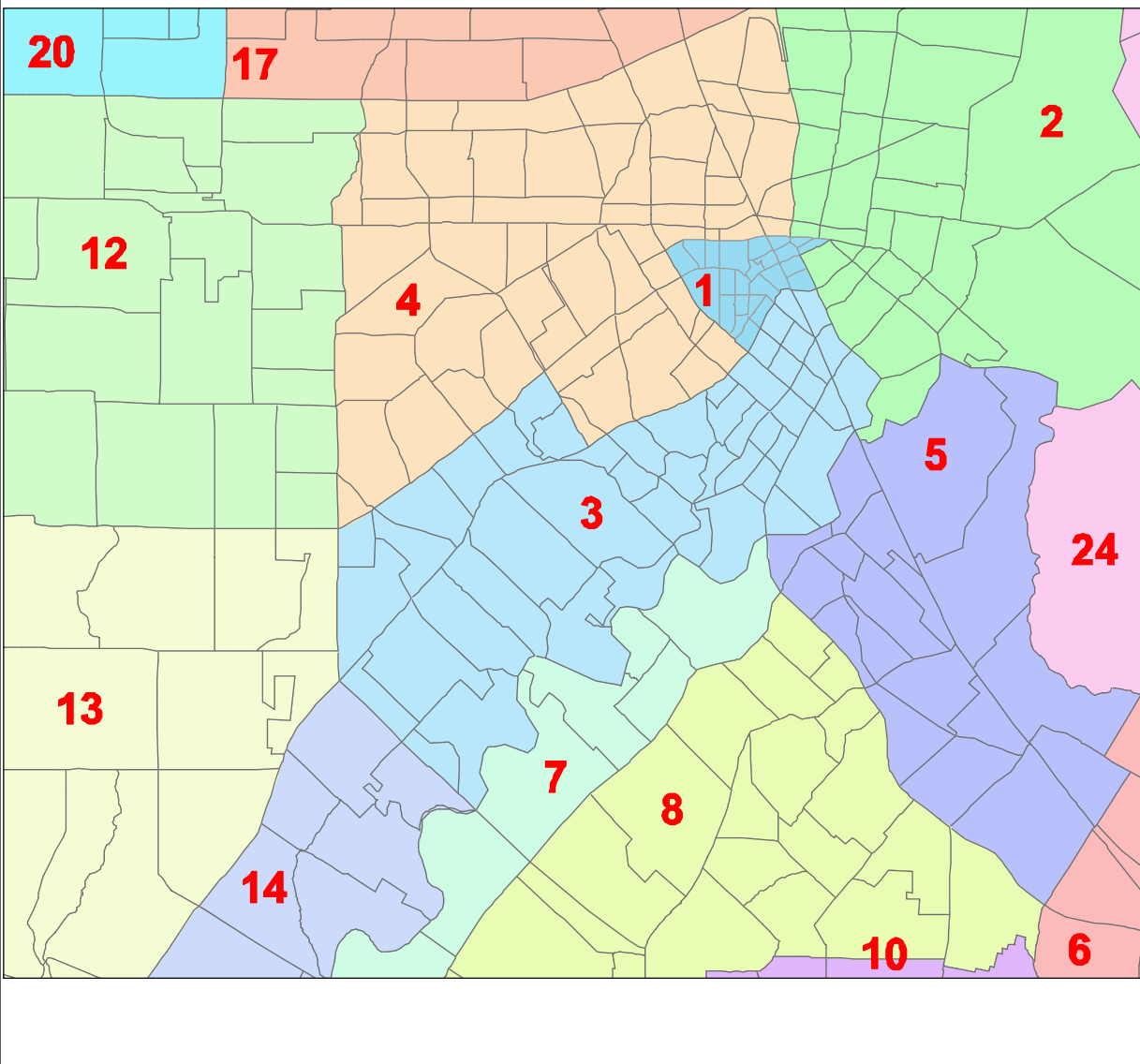
5 Planning Areas

**Central
North
South
East
West**



28 Sub Planning Areas





**1 = CENTRAL
BUSINESS
DISTRICT**

**2 = LAFAYETTE
EAST**

**3 = LAFAYETTE
SOUTH**

**4 = LAFAYETTE
NORTH & WEST**

**5 = AIRPORT
SOUTH**

6 = BROUSSARD

**7 = VERMILION
RIVER TO KALISTE
SALOOM**

**8 = KALISTE
SALOOM TO LA
NEUELLE**

Lafayette Central

- 1 - Central Business District
- 2 - Lafayette East
- 3 - Lafayette South
- 4 - Lafayette North & West

North Region

- 17 - North Central
- 18 - Carencro
- 19 - Northwest
- 20 - Northeast
- 21 - St. Martin Parish North
- 28 - Acadia Parish

West Region

- 12 - Scott
- 13 - Congress to Johnston
- 14 - Johnston to River
- 15 - Duson South
- 16 - Far West
- 27 - Vermilion Parish

South Region

- 5 - Airport South
- 6 - Broussard
- 7 - Vermilion River to K. Saloom
- 8 - K. Saloom to La Neuville
- 9 - Milton
- 10 - Youngsville Area
- 11 - Far South
- 23 - St. Martin South
- 26 - Iberia Parish

East Region

- 22 - Breaux Bridge
- 24 - St. Martin East
- 25 - St. Martin West

5 Planning Areas**28 Sub Planning Areas**

FOR FUTHER INFORMATION

2030 Transportation Plan
Demographic Analysis:

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<http://www.lafayettelinc.net/mpo/demo/intro.asp>